## **CLAIM AMENDMENTS:**

Claims 1-4 (Cancelled)

- 5. (Previously presented) A method for improving discoloration in pulp characterized in that a pulp containing a bleached mechanical pulp is irradiated with UV and/or visible light in the presence of at least one compound selected from the group consisting of reducing agents, peroxides and hydrogen-donating organic compounds.
- 6. (Previously presented) The method for improving discoloration in pulp of claim 5 characterized in that the pulp containing a bleached mechanical pulp is a mixture with one or more of bleached semi-chemical pulp, bleached chemical pulp and bleached deinked pulp.
- 7. (Previously presented) The method for improving discoloration in pulp of claim 5 characterized in that the UV and/or visible light is laser light.
- 8. (Previously presented) The method for improving discoloration in pulp of claim 6 characterized in that the UV and/or visible light is laser light.
- 9. (Previously presented) The method for improving discoloration in pulp of claim 5 characterized in that the at least one compound selected from the group consisting of reducing agents, peroxides and hydrogen-donating organic compounds is used in the range of 0.05 to 50% by weight on the basis of pulp solids.
- 10. (Previously presented) The method for improving discoloration in pulp of claim 6 characterized in that the at least one compound selected from the group consisting of reducing agents, peroxides and hydrogen-donating organic compounds is used in the range of 0.05 to 50% by weight on the basis of pulp solids.

- 11. (Previously presented) The method for improving discoloration in pulp of claim 7 characterized in that the at least one compound selected from the group consisting of reducing agents, peroxides and hydrogen-donating organic compounds is used in the range of 0.05 to 50% by weight on the basis of pulp solids.
- 12. (Previously presented) A pulp with improved discoloration obtained by the method for improving discoloration in pulp of claim 5.
- 13. (Previously presented) A pulp with improved discoloration obtained by the method for improving discoloration in pulp of claim 6.
- 14. (Previously presented) A pulp with improved discoloration obtained by the method for improving discoloration in pulp of claim 7.

Claims 15-17 (Cancelled)

- 18. (Previously presented) The method of claim 5, wherein said at least one compound is a reducing agent.
- 19. (Previously presented) The method of claim 18, wherein said reducing agent is sodium borohydride or tetrabutylammonium borohydride.
- 20. (Previously presented) The method of claim 7, wherein said at least one compound is a reducing agent.
- 21. (Previously presented) The method of claim 20, wherein said reducing agent is sodium borohydride or tetrabutylammonium borohydride.

- 22. (Previously presented) The method of claim 5, wherein said at least one compound is a hydrogen donating organic compound.
- 23. (Currently amended) The method of claim 22, wherein said hydrogen-donating organic compound is ethyl alcohol, benzyl alcohol, benzyl alcohol or furfuryl alcohol.
- 24. (Previously presented) The method of claim 7, wherein said at least one compound is a hydrogen-donating organic compound.
- 25. (Currently amended) The method of claim 2, wherein said hydrogen-donating organic compound is ethyl alcohol, benzyl alcohol, benzyl alcohol or furfuryl alcohol.
- 26. (New) The method of claim 5, wherein said pulp containing said bleached mechanical pulp is in the form of an aqueous suspension, which aqueous suspension is dewatered and formed into a pulp sheet, which pulp sheet is then impregnated with said at least one compound selected from the group consisting of reducing agents, peroxides and hydrogen-donating organic compounds and irradiated with UV and/or visible light.
- 27. (New) The method of claim 7, wherein said pulp containing said bleached mechanical pulp is in the form of an aqueous suspension, which aqueous suspension is dewatered and formed into a pulp sheet, which pulp sheet is then impregnated with said at least one compound selected from the group consisting of reducing agents, peroxides and hydrogen-donating organic compounds and irradiated with UV and/or visible laser light.
- 28. (New) The method of claim 27, wherein said pulp sheet is impregnated with a reducing agent to produce an irradiated pulp sheet having a smaller decrease in brightness than unirradiated bleached mechanical pulp over the first two hours of a fading test using a UV light generated from a Xenon lamp at a black panel temperature of 63°C, humidity of 50% and irradiation intensity of 70W.